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PO Box 8091 Medford, OR 97501

Material Safety Data Sheet

Material Safety Data Sheet

For

SHENZHEN DISHY HIGH TECHNOLOGY CO., LTD. Komeito Industry Zone, Gongming Town, Shenzhen City, China and for their product

Alkaline Battery

Model/type reference	AAA, AA, C, D, LR1, 6F22, 6LR61, LR621, LR726, LR626, LR754, LR927, LR1120, LR1120, LR936, LR1130, LR721, LR43, LR44, LR41, 23A, 27A
Trademark	N/A
Nominal Voltage	1.5V
Typical Capacity	
Weight	6.0g
Shape and Physical Dimension (mm):	L: 44.3mm D: 10.2mm
Version number:	V1.0
Preparation Date	October. 17, 2013
Revision date	N/A.
*	· · · · · · · · · · · · · · · · · · ·
Laboratory	Shenzhen SEM.Test Technology Co., Ltd.
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Compiled by (name+ signature) ..: Horse Kang

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PO Box 8091 Medford, OR 97501 Material Safety Data Sheet

1. Chemical Product Identification

Product name: Alkaline Battery

Model: AAA, AA, C, D, LR1, 6F22, 6LR61, LR621, LR726, LR626, LR754, LR927,

LR1120, LR1120, LR936, LR1130, LR721, LR43, LR44, LR41, 23A, 27A

2. Company Identification

Manufacturer /Supplier Name: SHENZHEN DISHY HIGH TECHNOLOGY CO., LTD.

Address: Komeito Industry Zone, Gongming Town, Shenzhen City, China

Telephone number of the supplier:+86-0769-22807078 Emergency Telephone No.(24h): +86-0769-22807078

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e-mail address: rose@dishy-battery.com

This MSDS was prepared by Shenzhen SEM.Test Technology Co., Ltd.

Item Number: STR14109087S

Referenced documents: ISO 11014:2009 Safety data sheet for chemical products;

Section 2 - Hazards Identification

Preparation	Not dangerous with normal use. Do not dismantle, open or shred Alkaline Battery	
hazards and classification	the ingredients contained within or their ingredients products could be harmful.	
Apperance, Color, and Odor	Solid object with no odor, no color.	
Primary	These chemicals are contained in a sealed stainless steel enclosure. Risk of	
Route(s) of Exposure	exposure occurs only if the cell is mechanically, thermally or electrically abused to	
Lxposure	the point of compromising the enclosure. If this occurs, exposure to the electrolyte	
	solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin	
	contact	
Potential	ACUTE (short term): see Section 8 for exposure controls In the event that this	
Health Effects:	battery has been ruptured, the electrolyte solution contained within the battery	
Ellects.	would be corrosive and can cause burns.	
	Inhalation: Inhalation of materials from a sealed battery is not an expected route of	
	exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.	
	Ingestion: Swallowing of materials from a sealed battery is not an expected route	
	of exposure. Swallowing the contents of an open battery can cause serious	
	chemical burns of mouth, esophagus, and gastrointestinal tract.	
	Skin: Contact between the battery and skin will not cause any harm. Skin contact	
	with contents of an open battery can cause severe irritation or burns to the skin.	
	Eye: Contact between the battery and the eye will not cause any harm. Eye contact	
	with contents of an open battery can cause severe irritation or burns to the eye.	
	CHRONIC (long term): see Section 11 for additional toxicological data	
Medical	Not applicable	
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PO Box 8091 Medford, OR 97501

Material Safety Data Sheet

Exposure	
Reported as	Not applicable
carcinogen	

Section 3 – Composition/Information on Ingredients

Alkaline Battery is a mixture.

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Manganese Dioxide	40	1313-13-9
Zinc Metal	16	7440-66-6
Potassium hydroxide	8	1310-58-3
Water	10	7732-18-5
Iron	17	7439-89-6
Copper	3	7440-50-8
Nylon	3	9008-75-7
Graphite	3	7782-42-5

Note: CAS number is Chemical Abstract Service Registry Number. N/A=Not apply.

Section 4 - First-aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or	
	move victim to fresh air. Obtain medical advice.	
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible	
	remove contaminated clothing, shoes and leather goods. Immediately flush with	
	lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists,	
	seek medical attention. Completely decontaminate clothing, shoes and leather	
	goods before reuse or discard.	
Eye contact	If eye contact with contents of an open battery occurs, immediately flush the	
	contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes	
	while holding the eyelids open. Neutral saline solution may be used as soon as it is	
	available. If necessary, continue flushing during transport to emergency care	
	facility. Take care not to rinse contaminated water into the unaffected eye or onto	
	face. Quickly transport victim to an emergency care facility.	
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if	

PO Box 8091 Medford, OR 97501 Material Safety Data Sheet

drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean
forward to reduce risk of aspiration. Have victim rinse mouth with water again.
Quickly transport victim to an emergency care facility.

Section 5 - Fire-fighting Measures

In the event that this battery has been ruptured, the electrolyte solution contain	
within the battery would be flammable. Like any sealed container, battery cells may	
rupture when exposed to excessive heat; this could result in the release of	
flammable or corrosive materials.	
Use extinguishing media suitable for the materials that are burning.	
Not available	
Sensitivity to Mechanical Impact: This may result in rupture in extreme cases	
Sensitivity to Static Discharge: Not Applicable	
Fires involving Alkaline Battery an be controlled with water. When water is used,	
however, hydrogen gas may evolve. In a confined space, hydrogen gas can form	
an explosive mixture. In this situation, smothering agents are recommended to	
extinguish the fire	
As for any fire, evacuate the area and fight the fire from a safe distance. Wear a	
pressure-demand, self-contained breathing apparatus and full protective gear.	
Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved	
full-face self-contained breathing apparatus (SCBA) with full protective gear.	
iuli-lace Self-contained breathing apparatus (OOD) (With fair protostro godin	

Section 6 – Accidental Release Measures

Personal Precautions, protective equipment, and	Restrict access to area until completion of
emergency procedures	clean-up. Do not touch the spilled material. Wear
	adequate personal protective equipment as
	indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and
	from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled
	liquid with dry sand or earth. Clean up spills

PO Box 8091 Medford, OR 97501

Material Safety Data Sheet

(dry sand or earth). Scoop contaminated
absorbent into an acceptable waste container.
Collect all contaminated absorbent and dispose
of according to directions in Section 13. Scrub
the area with detergent and water; collect all
contaminated wash water for proper disposal.

Section 7 - Handling and Storage

Handling	Do not dismantle, open or shred secondary Alkaline Battery;
	Don't handling Alkaline Battery with metalwork. Do not open, dissemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace.
	Prevent formation of dust.
	Information about protection against explosions and fires: Keep ignition sources away- Do not smoke.
Storage	If the Alkaline Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Alkaline Battery periodically.
	3 months: -10℃~+40℃, 45 to 85%RH
	And recommended at 0°C~+35°C for long period storage.
	The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.
	The voltage for a long time storage shall be 1.5V~2.5V range.
	Do not storage Alkaline Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
	Keep out of reach of children.
	Do not expose Alkaline Battery to heat or fire. Avoid storage in direct sunlight.
	Do not store together with oxidizing and acidic materials.

PO Box 8091 Medford, OR 97501 Material Safety Data Sheet

Engineering Controls	Use local exhaust ventilation or other
	engineering controls to control sources of dust,
	mist, fumes and vapor.
	Keep away from heat and open flame. Store in a
	cool, dry place.
Personal Protective Equipment	Respiratory Protection: Not necessary under
	normal conditions.
	Skin and body Protection: Not necessary
	under normal conditions, Wear neoprene or
	nitrile rubber gloves if handling an open or
	leaking battery.
	Hand protection: Wear neoprene or natural
	rubber material gloves if handling an open or
	leaking battery.
	Eye Protection: Not necessary under normal
	conditions, Wear safety glasses if handling an
	open or leaking battery.
Other Protective Equipment	Have a safety shower and eye wash fountain
	readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area.
, in grand model of	Maintain good housekeeping.

Section 9 - Physical and Chemical Properties

	Form: Solid	
Physical State	Color: Yellow	
Otato	Odour: Monotony	
Change in	condition:	
pH, with in	dication of the concentration	Not applicable
Melting poi	int/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range:		Not available.
Flash Poin	t	Not available.
Upper/lowe	er flammability or explosive limits	Not available.
Vapor Pres	ssure:	Not applicable
Vapor Den	sity: (Air = 1)	Not applicable

PO Box 8091 Medford, OR 97501

Material Safety Data Sheet

Solubility in Water:	Insoluble
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	130°C
Decomposition temperature	Not available.
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable

Section 10 - Stability and Reactivity

Stability	The product is stable under normal conditions.
Conditions to Avoid (e.g. static discharge, shock or vibration)	Do not subject Alkaline Battery to mechanical shock. Vibration encoutered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.
Incompatible Materials	Not Available
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire
Possibility of Hazardous Reaction	Not Available

Section 11 - Toxicological Information

The state of the second in
Risk of irritation occurs only if the cell is
mechanically, thermally or electrically abused to
the point of compromising the enclosure. If this
occurs, irritation to the skin, eyes and respiratory
tract may occur.
Not Available

PO Box 8091 Medford, OR 97501 Material Safety Data Sheet

Section 12 - Ecological Information

ral nata:	Water hazard class 1(Self-assessment): slightly
	hazardous for water.
	Do not allow undiluted product or large quantities
	of it to reach ground water, water course or
	sewage system.
ipated behavior of a chemical product in	Not Available
onment/possible environmental	
ce/ecotoxicity	
ity in soil	Not Available
stence and Degradability	Not Available
ccumulation potential	Not Available
r Adverse Effects	Not Available
ccumulation potential	Not Available

Section 13 - Disposal Considerations

Product disposal recommendation: Observe local, state and federal laws and regulations. Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local,

The potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling;

Section 14 - Transport Information

state and federal laws and regulations.

This report applies to by sea, by air and by land;

Alkaline Battery complies with SP A123 the UN Recommendations on the Transport of Dangerous Goods; IATA Dangerous Goods regulations, and applicable U.S. DOT regulations for the safe transport of Alkaline Battery.

The Alkaline Battery according to SP 123 of the 2013 IATA Dangerous Goods regulations 54th Edition may be transported, and applicable U.S. DOT regulations for the safe transport of Alkaline Battery.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of

PO Box 8091 Medford, OR 97501 Material Safety Data Sheet

unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The Dry the battery having the

potential of a dangerous evolution of heat must be prepared for transport so as to prevent:

(a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and (b) accidental activation.

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

PO Box 8091 Medford, OR 97501 Material Safety Data Sheet

Section	1	5	- Re	gula	tory	Inf	orma	tion
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OSHA hazard	communication	standard (29 CFR	1910.1200))
	Hazardous			Non-hazardous

Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. however, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use, users should make their own investigations to determine the suitability of the information for their particular purposes, although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation, this material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

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